3. (Amended) [Biosensor] The biosensor according to claim 1, wherein the carbohydrate part of the carbohydrate derivative contains at least one component selected from the group consisting of hexosamine-, fucose-, galactose-glucose-, mannose-, xylose-, N-acetylneuraminic acid residue [or] and an analog thereof.

4. (Amended) [Biosensor] The biosensor according to claim 1, where the carbohydrate part of the carbohydrate derivative contains at least one component selected from the group consisting of hexosamine-, fucose-, galactose-glucose, mannose-, xylose-, N-acetylneuraminic acid residue [or] and an analog thereof, which has been derivatised in at least one of their hydroxyl groups or amino groups with an organic or inorganic group.

5. (Twice Amended) [Biosensor] The biosensor according to claim 1, in which the carbohydrate derivative contains at least one O-, N-, S-, or C-glycosidically bound aglycon.

6. (Twice Amended) [Biosensor] The biosensor according to claim 1, in which the aglycon part of the carbohydrate derivative contains at least one aliphatic or aromatic compound.

7. (Twice Amended) [Biosensor] The biosensor according to claim 1, in which the aglycon part of the carbohydrate derivative contains an amino acid-, peptide- or protein component.

8. (Twice Amended) [Biosensor] The biosensor according to claim 1, in which the carbohydrate derivative [consist] consists of a glycoprotein or a neoglycoprotein which is bound covalently or via adsorption to [a] said surface which [consist] consists of the signal transducing part of the biosensor.

9. (Amended) [Biosensor] The biosensor according to claim 1, in which the biosensor is an optical biosensor which gives a signal change at the binding of a protein, a virus or a cell to a surface in the biosensor.

10. (Amended) [Biosensor] The biosensor according to claim 9, in which the optical biosensor [use] functions by surface plasmon changes, [ellipsometri] ellipsometry, reflection measurement or polarisation measurement.

11. (Amended) [Biosensor] The biosensor according to claim 1, in which the biosensor is based on a piezoelectric crystal, electrochemical electrode or a thermistor.

12. (Amended) [Biosensor] The biosensor according to claim 1, in which the carbohydrate is an oligosaccharide or a derivative thereof which is bound via an aglycon to a surface of the biosensor.

13. (Amended) [Biosensor] The biosensor according to claim 1, in which the carbohydrate is an oligosaccharide or a derivative thereof which is bound via an aglycon to [a gold] said surface of the biosensor which is gold.